

Calculating Volume – Answers

1. $V = L \times W \times H$

$$= 100 \text{ ft} \times 42 \text{ ft} \times 21 \text{ ft}$$

$$= 88,200 \text{ ft}^3$$

$$= 88,200 \text{ ft}^3 \times 7.48 \text{ gallons per ft}^3$$

$$= 659,736 \text{ gal}$$

2. $V = .785 \times D^2 \times H$

$$= .785 \times 67 \text{ ft} \times 67 \text{ ft} \times 200 \text{ ft}$$

$$= 704,773 \text{ ft}^3$$

$$= 704,773 \text{ ft}^3 \times 7.48 \text{ gallons per ft}^3$$

$$= 5,271,702 \text{ gal}$$

3. $V = .785 \times D^2 \times H$

$$= .785 \times 37 \text{ ft} \times 37 \text{ ft} \times 117 \text{ ft}$$

$$= 125,735.81 \text{ ft}^3$$

$$= 125,735.81 \text{ ft}^3 \times 7.48 \text{ gallons per ft}^3$$

$$= 940,503.82 \text{ gal}$$